

```

LLL          000000000    GGGGGGGGGGGG    IIIIIIIIII    NNN        NNN
LLL          000000000    GGGGGGGGGGGG    IIIIIIIIII    NNN        NNN
LLL          000000000    GGGGGGGGGGGG    IIIIIIIIII    NNN        NNN
LLL          000      000    GGG            III      NNN        NNN
LLL          000      000    GGG            III      NNN        NNN
LLL          000      000    GGG            III      NNN        NNN
LLL          000      000    GGG            III      NNN        NNN
LLL          000      000    GGG            III      NNNNNN     NNN
LLL          000      000    GGG            III      NNNNNN     NNN
LLL          000      000    GGG            III      NNNNNN     NNN
LLL          000      000    GGG            III      NNN      NNN    NNN
LLL          000      000    GGG            III      NNN      NNN    NNN
LLL          000      000    GGG            III      NNN      NNN    NNN
LLL          000      000    GGG      GGGGGGGGGG    III      NNN      NNNNNN
LLL          000      000    GGG      GGGGGGGGGG    III      NNN      NNNNNN
LLL          000      000    GGG      GGGGGGGGGG    III      NNN      NNNNNN
LLL          000      000    GGG              GGG      III      NNN      NNN
LLL          000      000    GGG              GGG      III      NNN      NNN
LLL          000      000    GGG              GGG      III      NNN      NNN
LLLLLLLLLLLLLLLLLLLL    000000000    GGGGGGGGGG    IIIIIIIIII    NNN        NNN
LLLLLLLLLLLLLLLLLLLL    000000000    GGGGGGGGGG    IIIIIIIIII    NNN        NNN
LLLLLLLLLLLLLLLLLLLL'   000000000    GGGGGGGGGG    IIIIIIIIII    NNN        NNN

```

```

LL          IIIIII      SSSSSSSS
LL          IIIIII      SSSSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II        SSSSSS
LL          II        SSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LLLLLLLLLLL IIIIIIII   SSSSSSSS
LLLLLLLLLLL IIIIIIII   SSSSSSSS

```

```
0001 0 MODULE detached (IDENT = 'V04-000',
0002 0 ADDRESSING_MODE(EXTERNAL = 'GENERAL')) =
0003 1 BEGIN
0004 1
0005 1
0006 1 *****
0007 1 *
0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1 ++
0030 1 FACILITY: Login
0031 1
0032 1 ABSTRACT:
0033 1
0034 1 This module handles all processing specific to detached jobs.
0035 1
0036 1 ENVIRONMENT:
0037 1
0038 1 VAX/VMS operating system.
0039 1
0040 1 AUTHOR: Tim Halvorsen, March 1981
0041 1
0042 1 Modified by:
0043 1
0044 1 V03-013 MHB0147 Mark Bramhall 7-May-1984
0045 1 Guard again no global buffers when opening NETUAF.
0046 1
0047 1 V03-012 MHB0125 Mark Bramhall 10-Apr-1984
0048 1 Set node name, etc. via SET_NODE_NAME.
0049 1 Disallow network access to accounts with secondary passwords.
0050 1 Fix up network output file name scanning.
0051 1
0052 1 V03-011 MHB0107 Mark Bramhall 21-Mar-1984
0053 1 Use LNM services for logical names.
0054 1
0055 1 V03-010 PCG0001 Peter George 31-Jan-1984 15:10
0056 1 Add secondary password to network processing.
0057 1 Correct bug in interpreting batch item list.
```


58	0058	1	
59	0059	1	
60	0060	1	
61	0061	1	
62	0062	1	
63	0063	1	
64	0064	1	
65	0065	1	
66	0066	1	
67	0067	1	
68	0068	1	
69	0069	1	
70	0070	1	
71	0071	1	
72	0072	1	
73	0073	1	
74	0074	1	
75	0075	1	
76	0076	1	
77	0077	1	
78	0078	1	
79	0079	1	
80	0080	1	
81	0081	1	
82	0082	1	
83	0083	1	
84	0084	1	
85	0085	1	
86	0086	1	
87	0087	1	
88	0088	1	
89	0089	1	
90	0090	1	
91	0091	1	
92	0092	1	
93	0093	1	
94	0094	1	
95	0095	1	
96	0096	1	
97	0097	1	
98	0098	1	
99	0099	1	
100	0100	1	
101	0101	1	
102	0102	1	
103	0103	1	
104	0104	1	
105	0105	1	
106	0106	1	
107	0107	1	
108	0108	1	
109	0109	1	
110	0110	1	
111	0111	1	
112	0112	1	
113	0113	1	
114	0114	1	

V03-009	ACG0385	Andrew C. Goldstein,	29-Dec-1983 9:59
		Implement job type in JIB; fix coding of field references	
		to proxy file record. Change UAF working set fields	
		to longwords.	
V03-008	ACG0376	Andrew C. Goldstein,	22-Nov-1983 17:16
		Interface cleanup with VALIDATE UAFREC; fix error handling	
		in GET_PROXY. Put batch input file name in PPDST_FILENAME.	
V03-007	GAS0183	Gerry Smith	16-Sep-1983
		For network logins, rearrange the code so that the	
		node name gets set early on. This helps in both	
		accounting and breakin evasion.	
V03-006	GAS0164	Gerry Smith	30-Jul-1983
		Change the method of disabling logical name translation	
		in RMS calls to use the new ACMODES field.	
V03-005	MLJ0115	Martin L. Jack,	29-Jul-1983 10:29
		Update for new log file error handling.	
V03-004	GAS0137	Gerry Smith	26-May-1983
		Do not signal a \$SNDJBC error when terminating a batch job.	
V03-003	GAS0123	Gerry Smith	19-Apr-1983
		Change interface to use SNDJBC for batch jobs. Also,	
		if proxy access is requested and the NETUAF cannot be	
		accessed, signal with a fatal error.	
V03-002	GAS0097	Gerry Smith	4-Jan-1983
		Fix the case of proxy login for wildcard entries.	
V03-001	GAS0057	Gerry Smith	17-Mar-1982
		Fix FABS to disable all but system	
		logical name translation during open/creates.	
V03-010	MLJ34580	Martin L. Jack,	1-Feb-1982 0:55
		Make use of extensions to DJT record to set name and /NOTIFY	
		status for log file print job. Correct queue name translation	
		so that explicit queue name is not translated and implicit	
		SYS\$PRINT uses standard queue-name translation modiroutine.	
V03-009	GAS0032	Gerry Smith	07-Jan-1982
		On proxy login, if no UAF record is found, return	
		FALSE to indicate lookup failure.	
V03-008	GAS0031	Gerry Smith	04-Jan-1982
		Remove NETUAF structure definitions from this module.	
		\$NAFDEF now resides in LIB.REQ.	
V03-007	SPF0050	Steve Forgey	01-Jan-1982
		Store remote node info in P1 space for network jobs.	
V03-006	GAS0029	Gerry Smith	31-Dec-1981
		Add proxy login for network jobs.	

```
115 0115 1 | V03-005 HRJ0032 Herb Jacobs 12-Nov-1981
116 0116 1 | Process batch queue WSEXTENT if passed, validate username
117 0117 1 | as valid for batch job, and allow handler to stop a batch
118 0118 1 | job.
119 0119 1 |
120 0120 1 | V004 TMH0004 Tim Halvorsen 26-Oct-1981
121 0121 1 | Get ORIGUIC and OUTFNM from LGI area rather than from PPD.
122 0122 1 | Add extra acmode argument to calls to exec_crelog
123 0123 1 | Make use of global SYSSERROR descriptor, rather than
124 0124 1 | re-translating the logical name again here.
125 0125 1 |
126 0126 1 | V003 GWF0073 Gary Fowler 27-Jul-1981
127 0127 1 | Change job name to ASCII string. Increase maximum length of
128 0128 1 | message that can be received from the job controller
129 0129 1 |
130 0130 1 | V002 TMH0002 Tim Halvorsen 16-Jul-1981
131 0131 1 | Reference SHRLIB$ for shared require files.
132 0132 1 |
133 0133 1 | V03-001 GWF0051 Gary W. Fowler 29-May-1981
134 0134 1 | Add file size in message sent when log file is queued for
135 0135 1 | printing.
136 0136 1 | --
137 0137 1 |
138 0138 1 |
139 0139 1 | Include files
140 0140 1 |
141 0141 1 |
142 0142 1 | LIBRARY 'SYSSLIBRARY:LIB'; ! VAX/VMS system definitions
143 0143 1 | REQUIRE 'SHRLIB$:UTILDEF'; ! Common BLISS definitions
144 0328 1 |
145 0329 1 | REQUIRE 'LIB$:PPDDEF'; ! Process permanent data region
146 0476 1 | REQUIRE 'LIB$:LGIDEF'; ! LOGINOUT private permanent storage
```

```
148 0547 1 |
149 0548 1 | Table of contents
150 0549 1 |
151 0550 1 |
152 0551 1 FORWARD ROUTINE
153 0552 1   init_batch:      NOVALUE,      | Initialize batch job step
154 0553 1   stop_batch_job: NOVALUE,      | Stop batch job stream
155 0554 1   terminate_batch: NOVALUE,      | Stop a batch job
156 0555 1   init_network:  NOVALUE,      | Initialize network job
157 0556 1   get_proxy:      NOVALUE,      | Get proxy username
158 0557 1 |
159 0558 1 |
160 0559 1 | External routines
161 0560 1 |
162 0561 1 |
163 0562 1 EXTERNAL ROUTINE
164 0563 1   close_output:      NOVALUE,      | Close primary output file
165 0564 1   validate_uafrec: NOVALUE,      | Read/validate UAF record
166 0565 1   get_uafrec:      NOVALUE,      | Read UAF record without validation
167 0566 1   logout_message: NOVALUE,      | Write logout message
168 0567 1   map_imgact:      NOVALUE,      | Map image activator code segment
169 0568 1   create_logical:  NOVALUE,      | Create logical name with LNM services
170 0569 1   set_sysprv:      NOVALUE,      | Turn on SYSPRV
171 0570 1   clear_sysprv:    NOVALUE,      | Turn off SYSPRV
172 0571 1   set_uic:         NOVALUE,      | Set process UIC
173 0572 1   set_node_name:   NOVALUE,      | Set remote node info in P1 space
174 0573 1   exit_process:    NOVALUE,      | Exit the process
175 0574 1   lib$fid_to_name: NOVALUE,      | Translate file ID to file name
176 0575 1 |
177 0576 1 |
178 0577 1 | Define literals
179 0578 1 |
180 0579 1 |
181 0580 1 |
182 0581 1 |
183 0582 1 | Define message codes
184 0583 1 |
185 0584 1 |
186 0585 1 EXTERNAL LITERAL
187 0586 1   lgi$_jbcmixup,
188 0587 1   lgi$_userauth,
189 0588 1   lgi$_netuafacc;
190 0589 1 |
191 0590 1 |
192 0591 1 | External storage
193 0592 1 |
194 0593 1 |
195 0594 1 EXTERNAL
196 0595 1   pcb_sts:      BITVECTOR,      | PCB status flags
197 0596 1   job_type:   NOVALUE,      | Job type code for JIB
198 0597 1   input_fab:  BBLOCK,      | Input FAB
199 0598 1   input_nam:  BBLOCK,      | Input NAM
200 0599 1   output_fab: BBLOCK,      | Output FAB
201 0600 1   output_nam: BBLOCK,      | Output NAM
202 0601 1   uaf_record: REF BBLOCK,   | Address of UAF record
203 0602 1   sys$input:  VECTOR,      | Translation of SYSS$INPUT
204 0603 1   sys$output: VECTOR,      | Translation of SYSS$OUTPUT
```


DETACHED
V04-000

J 11
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

Page 5
(2)

:	205	0604	1	sys\$error;	VECTOR,	!	Translation of SYS\$ERROR
:	206	0605	1	ctl\$ag_clidata;		!	Process permanent data storage
:	207	0606	1				
:	208	0607	1	BIND			
:	209	0608	1	ppd = ctl\$ag_clidata: BBLOCK;		!	Address of PPD structure
:	210	0609	1				
:	211	0610	1				

```
0611 1 GLOBAL ROUTINE init_batch: NOVALUE =
0612 1
0613 1 ---
0614 1
0615 1     Perform batch initialization by requesting the job parameters
0616 1     from the job controller.
0617 1
0618 1     Inputs:
0619 1
0620 1         None
0621 1
0622 1     Outputs:
0623 1
0624 1         uaf_record = Address of UAF record for user
0625 1     ---
0626 1
0627 1 BEGIN
0628 1
0629 1 OWN
0630 1     jobname:    VECTOR [43,BYTE],      ! Must be static to be passed back
0631 1     logfile:    VECTOR [nam$C_maxrss,BYTE]; ! to caller as output filespec
0632 1
0633 1 LOCAL
0634 1     username : VECTOR[2]              ! Descriptor for username
0635 1     logdesc:   INITIAL(REP 2 OF (0)), ! Logical name descriptor
0636 1     logname:   VECTOR [2,BYTE],       ! 2 character logical name
0637 1     ptr : REF VECTOR[,WORD],
0638 1     length,
0639 1     buffer : VECTOR[500],             ! SNDJBC message buffer
0640 1     flags : REF $BBLOCK INITIAL (0); ! Flags from job controller
0641 1
0642 1
0643 1     Check to see if at early termination of batch job.
0644 1
0645 1     IF .ppd [ppd$w_outifi] NEQ 0      ! If not first job step,
0646 1     AND NOT .ppd [ppd$l_lststatus]    ! and job step failed,
0647 1     AND ((.ppd [ppd$l_lststatus] AND 6) NEQ 0) ! and its an error or fatal,
0648 1     THEN
0649 1         terminate_batch(0);          ! Stop the batch job
0650 1
0651 1
0652 1     Request detached job step initialization parameters from job controller
0653 1
0654 1 BEGIN
0655 1 LOCAL
0656 1     status,
0657 1     iosb : VECTOR[2],
0658 1     itmlst : $ITMLST_DECL(ITEMS = 1);
0659 1
0660 1 $ITMLST_INIT(ITMLST = itmlst,
0661 1             (ITMCD = sjc$ batch output,
0662 1             BUFSIZ = ZALLOCATION(buffer),
0663 1             BUFADR = buffer));
0664 1
0665 1 status = $SNDJBCW(FUNC = sjc$ batch_service,
0666 1                 ITMLST = itmlst,
0667 1                 IOSB = iosb);
```



```
270 0668 IF .status
271 0669 THEN status = .iosb[0];
272 0670 IF NOT .status
273 0671 THEN SIGNAL_STOP(.status);
274 0672 END;
275 0673
276 0674
277 0675
278 0676
279 0677 ptr = buffer;
280 0678 WHILE true DO
281 0679 BEGIN
282 0680 IF .ptr[1] EQL 0
283 0681 THEN EXITLOOP;
284 0682 IF .ptr[1] EQL dji$sk_flags
285 0683 THEN
286 0684 BEGIN
287 0685 flags = ptr[2];
288 0686 IF .flags[dji$sv_terminate]
289 0687 THEN stop_batch_job(.flags, buffer, 0);
290 0688 IF .flags[dji$sv_delete_file]
291 0689 THEN input_fab[fab$sv_d[t]] = true;
292 0690 IF .flags[dji$sv_restarting]
293 0691 THEN ppd[ppd$sv_restart] = true;
294 0692 IF .username[1] NEQ 0
295 0693 OR .ppd[ppd$sw_outifi] NEQ 0
296 0694 THEN EXITLOOP;
297 0695 END
298 0696 ELSE IF .ptr[1] EQL dji$sk_username
299 0697 THEN
300 0698 BEGIN
301 0699 username[1] = ptr[2];
302 0700 IF .flags NEQ 0
303 0701 THEN EXITLOOP;
304 0702 END;
305 0703 ptr = ptr[2] + .ptr[0];
306 0704 END;
307 0705
308 0706
309 0707
310 0708
311 0709 IF .ppd [ppd$sw_outifi] EQL 0 ! If this the first job step,
312 0710 THEN
313 0711 BEGIN
314 0712 job_type = jib$sc_batch;
315 0713 !***username [0] = uaf$ss_username; ! Setup descriptor of user name
316 0714 username [0] = 12; ! Setup descriptor of user name
317 0715 get_uafrec(username); ! Get user's UAF record
318 0716 IF .uaf_record EQL 0
319 0717 THEN
320 0718 SIGNAL_STOP(lgi$_userauth); ! signal fatal error
321 0719 END;
322 0720
323 0721
324 0722
325 0723
326 0724
```

Find the flags longword and the username.

Now to go thru all the data items in BUFFER, setting up the input and output files as indicated, as well as working set parameters and cpu time limit, if first job step.

```
327 0725 2 !
328 0726 2 logdesc[0] = 2; ! Set up the logical name descriptor
329 0727 2 logdesc[1] = logname;
330 0728 2 logname[0] = 'p';
331 0729 2
332 0730 2 output_fab[fab$b_fns] = 0; ! Initialize the file name
333 0731 2 ptr = buffer;
334 0732 2 WHILE true DO
335 0733 2 BEGIN
336 0734 2 CASE ptr[1] FROM 0 TO dji$k_wsquota OF
337 0735 2 SET
338 0736 2 [0] : EXITLOOP;
339 0737 2
340 0738 2 [dji$k_wsdefault] :
341 0739 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsdefault
342 0740 2 THEN
343 0741 2 BEGIN
344 0742 2 IF .flags[dji$v_use_wsdefault]
345 0743 2 THEN uaf_record[uaf$l_dfwsent] = .(ptr[2])
346 0744 2 ELSE uaf_record[uaf$l_dfwsent] = MINU(.(ptr[2]),
347 0745 2 .uaf_record[uaf$l_dfwsent]);
348 0746 2 END;
349 0747 2
350 0748 2 [dji$k_wsextent] :
351 0749 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsextent
352 0750 2 THEN
353 0751 2 BEGIN
354 0752 2 IF .flags[dji$v_use_wsextent]
355 0753 2 THEN uaf_record[uaf$l_wsextent] = .(ptr[2])
356 0754 2 ELSE uaf_record[uaf$l_wsextent] = MINU(.(ptr[2]),
357 0755 2 .uaf_record[uaf$l_wsextent]);
358 0756 2 END;
359 0757 2
360 0758 2 [dji$k_wsquota] :
361 0759 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsquota
362 0760 2 THEN
363 0761 2 BEGIN
364 0762 2 IF .flags[dji$v_use_wsquota]
365 0763 2 THEN uaf_record[uaf$l_wsquota] = .(ptr[2])
366 0764 2 ELSE uaf_record[uaf$l_wsquota] = MINU(.(ptr[2]),
367 0765 2 .uaf_record[uaf$l_wsquota]);
368 0766 2 END;
369 0767 2
370 0768 2 [dji$k_cpu_maximum] :
371 0769 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set CPU time limit
372 0770 2 THEN
373 0771 2 BEGIN
374 0772 2 IF .flags[dji$v_use_cpu_maximum]
375 0773 2 THEN uaf_record[uaf$l_cputim] = .(ptr[2])
376 0774 2 ELSE uaf_record[uaf$l_cputim] = MINU(.(ptr[2])-1, ! So that 0 > all others
377 0775 2 .uaf_record[uaf$l_cputim]-1) + 1;
378 0776 2 END;
379 0777 2
380 0778 2 [dji$k_job_name] :
381 0779 2 BEGIN ! Setup output log file name from job name
382 0780 2 length = .ptr[0]; ! get length of job name
383 0781 2 CH$MOVE(.length,
```

```
ptr[2],
jobname);
CHSMOVE(4, UPLIT BYTE('LOG'), jobname + .length);
output_fab [fab$l_dna] = jobname; ! Set default to <jobname>.LOG
output_fab [fab$b_dns] = .length + 4;
END;

[djisk_log_specification] :
BEGIN ! Set up the log file name
output_fab[fab$b_fns] = .ptr[0];
output_fab[fab$l_fna] = logfile;
CHSMOVE(.ptr[0],
ptr[2],
logfile);
END;

[djisk_file_identification] : ! Batch input file
BEGIN
LOCAL
name_desc : VECTOR [2],
dvi_desc : VECTOR [2],
name_length : WORD;
CHSMOVE(ppd$z_dvifid,
ptr[2],
input_nam[nam$z_dvi]);
input_fab [fab$z_nam] = true; ! Mark to open input by NAM block
! Get input file name for CLI
name_desc[0] = ppd$z_filename-1;
name_desc[1] = ppd[ppd$z_filename]+1;
dvi_desc[0] = VECTOR [input_nam[nam$z_dvi], 0; ,BYTE];
dvi_desc[1] = input_nam[nam$z_dvi]+1;
IF [ib$fid_to_name (dvi_desc, input_nam[nam$z_fid],
name_desc, name_length)
THEN VECTOR [ppd[ppd$z_filename], 0; ,BYTE] = .name_length;
END;

[djisk_parameter_1 TO djisk_parameter_8] :
BEGIN
LOCAL
desc: VECTOR[2];
desc[0] = .ptr[0];
desc[1] = ptr[2];
logname [1] = '1' + .ptr[1] - djisk_parameter_1;
create_logical(logdesc, ! Create Pn logical name
desc,
psl$z_user);
END;

[djisk_restart] :
BEGIN
LOCAL
desc : VECTOR[2];
desc[0] = .ptr[0];
desc[1] = ptr[2];
create_logical(%ASCID 'BATCH$RESTART',
desc,
psl$z_user);
```



```

: 441      0839      3      END;
: 442      0840
: 443      0841      [INRANGE] : true;
: 444      0842      [OUTRANGE] : true;
: 445      0843      TES;
: 446      0844      ptr = ptr[2] + .ptr[0];
: 447      0845      END;
: 448      0846
: 449      0847      IF .flags[dji$y_log_null]
: 450      0848      THEN
: 451      0849      BEGIN
: 452      0850      output_fab [fab$b_fns] = 4;
: 453      0851      output_fab [fab$l_fna] = UPLIT BYTE('_NL:');
: 454      0852      END;
: 455      0853
: 456      0854
: 457      0855      1 END;
```

```

                                .TITLE DETACHED
                                .IDENT  \V04-000\
                                .PSECT  $PLIT$,NOWRT,NOEXE,2
00 00 54 52 41 54 53 45 52 24 48 47 4F 4C 2E 00000 P.AAA: .ASCII  \.LOG\
                                00004 P.AAC: .ASCII  \BATCH$RESTART\<0><0><0>
                                00013
                                010E000D 00014 P.AAB: .LONG   17694733
                                00000000D 00018 .ADDRESS P.AAC
                                3A 4C 4E 5F 0001C P.AAD: .ASCII  \_NL:\
                                .PSECT  $OWNS$,NOEXE,2
                                00000 JOBNAME: .BLKB   43
                                0002B .BLKB   1
                                0002C LOGFILE: .BLKB  255
                                .EXTRN  CLOSE OUTPUT, VALIDATE UAFREC
                                .EXTRN  GET_UAFREC, LOGOUT_MESSAGE
                                .EXTRN  MAP_IMGACT, CREATE_LOGICAL
                                .EXTRN  SET_SYSPRV, CLEAR_SYSPRV
                                .EXTRN  SET_UIC, SET_NODE_NAME
                                .EXTRN  EXIT_PROCESS, LIB$FID TO NAME
                                .EXTRN  LGIS_JBCMIXUP, LGIS_USERAUTH
                                .EXTRN  LGIS_NETUAFACC, PCB_STS
                                .EXTRN  JOB TYPE, INPUT FAB
                                .EXTRN  INPUT NAM, OUTPUT FAB
                                .EXTRN  OUTPUT NAM, UAF RECORD
                                .EXTRN  SYSSINPUT, SYSSOUTPUT
                                .EXTRN  SYSSERROR, CTLSAG_CLIDATA
                                .EXTRN  SYSSNDJBCW
                                .PSECT  $CODE$,NOWRT,2
                                OFFC 00000
                                5B 00000000G 00 9E 00002
                                .ENTRY  INIT_BATCH, Save R2,R3,R4,R5,R6,R7,R8,R9,- : 0611
                                MOVAB   UAF_RECORD, R11
                                :
```

5A	00000000G	00	9E	00009	MOVAB	OUTPUT_FAB+52, R10	
59	00000000G	00	9E	00010	MOVAB	PPD+36, R9	
5E	F800	CE	9E	00017	MOVAB	-2048(SP), SP	
	F8	AD	7C	0001C	CLRQ	USERNAME	0627
		57	D4	0001F	CLRL	FLAGS	
		69	B5	00021	TSTW	PPD+36	0646
		11	13	00023	BEQL	1\$	
0D	F4	A9	E8	00025	BLBS	PPD+24, 1\$	0647
06	F4	A9	93	00029	BITB	PPD+24, #6	0648
		07	13	0002D	BEQL	1\$	
		7E	D4	0002F	CLRL	-(SP)	0650
0000V	CF	01	FB	00031	CALLS	#1, TERMINATE BATCH	
50	08	AE	9E	00036	MOVAB	ITMLST, \$\$ITMBLKPTR	0664
80	000B07D0	8F	D0	0003A	MOVL	#722896, (\$\$ITMBLKPTR)+	
80	20	AE	9E	00041	MOVAB	BUFFER, (\$\$ITMBLKPTR)+	
		80	7C	00045	CLRQ	(\$\$ITMBLKPTR)+	
		7E	7C	00047	CLRQ	-(SP)	0667
		20	AE	9F	PUSHAB	IOSB	
		14	AE	9F	PUSHAB	ITMLST	
7E		07	7D	0004F	MOVQ	#7, -(SP)	
		7E	D4	00052	CLRL	-(SP)	
00000000G	00	07	FB	00054	CALLS	#7, SYSSNDJBCW	
07		50	E9	0005B	BLBC	STATUS, 2\$	0668
50	18	AE	D0	0005E	MOVL	IOSB, STATUS	0669
09		50	E8	00062	BLBS	STATUS, 3\$	0670
		50	DD	00065	PUSHL	STATUS	0671
00000000G	00	01	FB	00067	CALLS	#1, LIB\$STOP	
56	20	AE	9E	0006E	MOVAB	BUFFER, PTR	0677
50	02	A6	3C	00072	MOVZWL	2(PTR), R0	0680
		4D	13	00076	BEQL	11\$	
03		50	B1	00078	CMPL	R0, #3	0682
		30	12	0007B	BNEQ	8\$	
57	04	A6	9E	0007D	MOVAB	4(R6), FLAGS	0685
67		06	E1	00081	BBC	#6, (FLAGS), 5\$	0686
		7E	D4	00085	CLRL	-(SP)	0687
		24	AE	9F	PUSHAB	BUFFER	
		57	DD	0008A	PUSHL	FLAGS	
0000V	CF	03	FB	0008C	CALLS	#3, STOP_BATCH_JOB	
08		67	E9	00091	BLBC	(FLAGS), -6\$	0688
00000000G	00	8F	88	00094	BISB2	#128, INPUT_FAB+5	0689
67	80	05	E1	0009C	BBC	#5, (FLAGS), 7\$	0690
DE	A9	10	88	000A0	BISB2	#16, PPD+2	0691
		FC	AD	000A4	TSTL	USERNAME+4	0692
		1C	12	000A7	BNEQ	11\$	
		69	B5	000A9	TSTW	PPD+36	0693
		0C	11	000AB	BRB	9\$	
10		50	B1	000AD	CMPL	R0, #16	0696
		09	12	000B0	BNEQ	10\$	
FC	AD	04	A6	9E	MOVAB	4(R6), USERNAME+4	0699
		57	D5	000B7	TSTL	FLAGS	0700
		0A	12	000B9	BNEQ	11\$	
50		66	3C	000BB	MOVZWL	(PTR), R0	0703
56	04	A046	9E	000BE	MOVAB	4(R0)[PTR], PTR	
		AD	11	000C3	BRB	4\$	0678
		69	B5	000C5	TSTW	PPD+36	0709
		26	12	000C7	BNEQ	12\$	
00000000G	00	02	D0	000C9	MOVL	#2, JOB_TYPE	0712

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61				50	D1	00179		CMPL	R0, (R1)		
50				03	18	0017C		BLEQU	22\$		
61				61	D0	0017E	21\$:	MOVL	(R1), R0		
				50	D0	00181	22\$:	MOVL	R0, (R1)		0764
				5E	11	00184		BRB	30\$		0759
				69	B5	00186	23\$:	TSTW	PPD+36		0769
				5A	12	00188		BNEQ	30\$		
50				68	D0	0018A		MOVL	UAF RECORD, R0		0773
50		022C		CO	9E	0018D		MOVAB	556(R0), R0		
				67	95	00192		TSTB	(FLAGS)		0772
				06	18	00194		BGEQ	24\$		
60		04		A6	D0	00196		MOVL	4(PTR), (R0)		0773
				48	11	0019A		BRB	30\$		
52				01	C3	0019C	24\$:	SUBL3	#1, 4(PTR), R2		0774
51				01	C3	001A1		SUBL3	#1, (R0), R1		0775
				52	D1	001A5		CMPL	R2, R1		
				03	18	001AB		BLEQU	25\$		
52				51	D0	001AA		MOVL	R1, R2		
60		01		A2	9E	001AD	25\$:	MOVAB	1(R2), (R0)		
				79	11	001B1	26\$:	BRB	32\$		0769
				58	3C	001B3	27\$:	MOVZWL	(PTR), LENGTH		0780
0000' CF		04		A6	58	001B6		MOV C3	LENGTH, 4(PTR), JOBNAME		0782
					48	9F		PUSHAB	JOBNAME[LENGTH]		0784
				9E	CF	D0		MOVL	P.AAA, 3(SP)+		
01	AA			AA	CF	9E		MOVAB	JOBNAME, OUTPUT FAB+48		0785
				58	04	81		ADDB3	#4, LENGTH, OUTPUT_FAB+53		0786
					58	11		BRB	32\$		0734
				6A	66	90		MOVB	(PTR), OUTPUT FAB+52		0791
				AA	CF	9E		MOVAB	LOGFILE, OUTPUT FAB+44		0792
0000' CF		FB		04	66	28		MOV C3	(PTR), 4(PTR), LOGFILE		0794
				A6	7A	11		BRB	36\$		0734
00000000G	00			04	1C	28		MOV C3	#28, 4(PTR), INPUT_NAM+20		0806
				00	01	88		BISB2	#1, INPUT FAB+7		0807
				18	8F	9A		MOVZBL	#255, NAME_DESC		0809
				1C	A9	9E		MOVAB	PPD+105, NAME_DESC+4		0810
				10	00	9A		MOVZBL	INPUT_NAM+20, DVI_DESC		0811
				14	00	9E		MOVAB	INPUT_NAM+21, DVI_DESC+4		0812
					5E	DD		PUSHL	SP		0813
					AE	9F		PUSHAB	NAME_DESC		
					00	9F		PUSHAB	INPUT_NAM+36		
					AE	9F		PUSHAB	DVI_DESC		
					04	FB		CALLS	#4, LIB\$FID_TO_NAME		
					50	E9		BLBC	R0, 36\$		
					6E	90		MOVB	NAME_LENGTH, PPD+104		0815
					32	11		BRB	36\$		0734
					66	3C		MOVZWL	(PTR), DESC		0822
					A6	9E		MOVAB	4(R6), DESC+4		0823
05	AE			02	2A	81		ADDB3	#42, 2(PTR), LOGNAME+1		0824
					03	DD		PUSHL	#3		0825
					AE	9F		PUSHAB	DESC		
					AD	9F		PUSHAB	LOGDESC		
					12	11		BRB	35\$		
					66	3C		MOVZWL	(PTR), DESC		0834
					A6	9E		MOVAB	4(R6), DESC+4		0835
					03	DD		PUSHL	#3		0836
					AE	9F		PUSHAB	DESC		
					CF	9F		PUSHAB	P.AAB		

DETACHED
V04-000

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VAX-11 Bliss-32 V4.0-742
[LOGIN.SRC]DETACHED.B32;1

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00000000G	00	03	FB	00259	35\$:	CALLS	#3, CREATE_LOGICAL	:		
	50	66	3C	00260	36\$:	MOVZWL	(PTR), R0	:	0844	
	56	04	A046	9E	00263	MOVAB	4(R0)(PTR), PTR	:		
		FE98	31	00268		BRW	13\$:	0732	
09	67	02	E1	0026B	37\$:	BBC	#2, (FLAGS), 38\$:	0847	
	6A	04	90	0026F		MOVB	#4, OUTPUT_FAB+52	:	0850	
	F8	AA	0000'	CF	9E	00272	MOVAB	P.AAD, OUTPUT_FAB+44	:	0851
			04	00278	38\$:	RET		:	0855	

; Routine Size: 633 bytes, Routine Base: \$CODE\$ + 0000

```
459 0856 1 GLOBAL ROUTINE terminate_batch(signal_args : REF $BBLOCK): NOVALUE =
460 0857 1
461 0858 1 ---
462 0859 1
463 0860 1 Request a job controller termination message, then stop batch job.
464 0861 1
465 0862 1 Inputs:
466 0863 1 Signal arguments or 0.
467 0864 1
468 0865 1 Outputs:
469 0866 1
470 0867 1 Job termination, no return, exit via exit process
471 0868 1 ---
472 0869 1
473 0870 2 BEGIN
474 0871 2
475 0872 2 LOCAL
476 0873 2 status, ! Status return from SNDJBC
477 0874 2 input_buffer: $BBLOCK[50], ! SNDJBC input buffer
478 0875 2 buffer: $BBLOCK[500], ! SNDJBC output buffer
479 0876 2 p : REF $BBLOCK, ! Cursor for input buffer
480 0877 2 ptr : REF VECTOR[,WORD], ! Pointer to buffer contents
481 0878 2 losb : VECTOR[2], ! Final status from SNDJBC
482 0879 2 itmlst : $ITMLST_DECL(ITEMS = 2); ! SNDJBC item list
483 0880 2
484 0881 2
485 0882 2
486 0883 2 Initialize SNDJBC input buffer.
487 0884 2
488 0885 2 p = input_buffer;
489 0886 2
490 0887 2 p[djisk_item_code] = djisk_input_flags; ! Inhibit return of a file
491 0888 2 p[djisk_item_size] = 4;
492 0889 2 p = .p + djisk_item_header;
493 0890 2 .p = djisk_no_file;
494 0891 2 p = .p + 4;
495 0892 2
496 0893 2 IF .signal_args NEQA 0 ! If signal arguments present
497 0894 2 THEN
498 0895 2 BEGIN
499 0896 2 LOCAL
500 0897 2 i: REF $BBLOCK; ! Pointer to item header
501 0898 2
502 0899 2 i = p;
503 0900 2 p[djisk_item_code] = djisk_condition_vector;
504 0901 2 p[djisk_item_size] = 4;
505 0902 2 p = .p + djisk_item_header;
506 0903 2 .p = .signal_args[4,0,32,0]; ! Primary condition
507 0904 2 p = .p + 4;
508 0905 2 IF .signal_args[0,0,8,0] GEQU 3
509 0906 2 THEN
510 0907 2 BEGIN
511 0908 2 i[djisk_item_size] = 8;
512 0909 2 .p = .signal_args[12,0,32,0]; ! STS, if present
513 0910 2 p = .p + 4;
514 0911 2 END;
515 0912 2 IF .signal_args[0,0,8,0] GEQU 4
```



```
516 0913 3 THEN
517 0914 4 BEGIN
518 0915 4 i[d]i$w_item_size] = 12;
519 0916 4 .p = .signal_args[16,0,32,0]; ! STV, if present
520 0917 4 p = .p + 4;
521 0918 4 END;
522 0919 4
523 0920 4 .p = 0; ! Zero terminate list
524 0921 4
525 0922 4
526 0923 4
527 0924 4
528 0925 4
529 0926 4
530 0927 4 $ITMLST_INIT(ITMLST = itmlst,
531 0928 4 (ITMCOD = sjc$ batch input,
532 0929 4 BUFSIZ = %ALLOCATION(input_buffer),
533 0930 4 BUFADR = input_buffer),
534 0931 4 (ITMCOD = sjc$ batch output,
535 0932 4 BUFSIZ = %ALLOCATION(buffer),
536 0933 4 BUFADR = buffer));
537 0934 4 status = $SNDJBCW(FUNC = sjc$ batch_service,
538 0935 4 ITMLST = itmlst,
539 0936 4 IOSB = iosb);
540 0937 4 IF .status
541 0938 4 THEN status = .iosb[0];
542 0939 4 IF NOT .status
543 0940 4 THEN stop_batch_job(UPLIT(0), 0, .signal_args);
544 0941 4
545 0942 4
546 0943 4
547 0944 4
548 0945 4 ptr = buffer;
549 0946 4 WHILE .(ptr[0]) NEQ 0 DO
550 0947 4 BEGIN
551 0948 4 IF .ptr[1] EQL dji$ flags
552 0949 4 THEN stop_batch_job(ptr[2], buffer, .signal_args);
553 0950 4 ptr = ptr[2] + .ptr[0];
554 0951 4 END;
555 0952 4
556 0953 4
557 0954 4 END;
```

```
.PSECT $SPLITS,NOWRT,NOEXE,2
00000000 00020 P.AAE: .LONG 0
```

```
.PSECT $CODE$,NOWRT,2
.ENTRY TERMINATE_BATCH, Save R2,R3
MOVAB -588(SP), SP
MOVAB INPUT_BUFFER, P
MOVL #-2147418108, (P)+
: 0856
: 0885
: 0888
```

80		01	D0	00012	MOVL	#1, (P)+	0890
53	04	AC	D0	00015	MOVL	SIGNAL_ARGS, R3	0893
		26	13	00019	BEQL	2\$	
51		50	D0	0001B	MOVL	P, 1	0899
80	80020004	8F	D0	0001E	MOVL	#-2147352572, (P)+	0901
80		A3	D0	00025	MOVL	4(R3), (P)+	0903
03	04	63	91	00029	CMPB	(R3), #3	0905
		07	1F	0002C	BLSSU	1\$	
61		08	B0	0002E	MOVW	#8, (I)	0908
80	0C	A3	D0	00031	MOVL	12(R3), (P)+	0909
04		63	91	00035	CMPB	(R3), #4	0912
		07	1F	00038	BLSSU	2\$	
61		0C	B0	0003A	MOVW	#12, (I)	0915
80	10	A3	D0	0003D	MOVL	16(R3), (P)+	0916
		60	D4	00041	CLRL	(P)	0920
50		6E	9E	00043	MOVAB	ITMLST, \$\$ITMBLKPTR	0932
80	000A0032	8F	D0	00046	MOVL	#655410, (\$\$ITMBLKPTR)+	
80	CC	AD	9E	0004D	MOVAB	INPUT_BUFFER, (\$\$ITMBLKPTR)+	
		80	D4	00051	CLRL	(\$\$ITMBLKPTR)+	
80	000B01F4	8F	D0	00053	MOVL	#721396, (\$\$ITMBLKPTR)+	
80		AE	9E	0005A	MOVAB	BUFFER, (\$\$ITMBLKPTR)+	
	24	80	7C	0005E	CLRL	(\$\$ITMBLKPTR)+	
		7E	7C	00060	CLRL	-(SP)	0935
	24	AE	9F	00062	PUSHAB	IOSB	
	0C	AE	9F	00065	PUSHAB	ITMLST	
7E		07	7D	00068	MOVQ	#7, -(SP)	
		7E	D4	0006B	CLRL	-(SP)	
00000000G	00	07	FB	0006D	CALLS	#7, SYS\$SNDJBCW	
	07	50	E9	00074	BLBC	STATUS, 3\$	0936
	1C	AE	D0	00077	MOVL	IOSB, STATUS	0937
		50	E8	0007B	BLBS	STATUS, 4\$	0938
		53	DD	0007E	PUSHL	R3	0939
		7E	D4	00080	CLRL	-(SP)	
	0000'	CF	9F	00082	PUSHAB	P, AAE	
0000V	CF	03	FB	00086	CALLS	#3, STOP_BATCH_JOB	
	52	AE	9E	0008B	MOVAB	BUFFER, PTR	0945
		62	D5	0008F	TSTL	(PTR)	0946
		1D	13	00091	BEQL	7\$	
03	02	A2	B1	00093	CMPW	2(PTR), #3	0948
		0D	12	00097	BNEQ	6\$	
		53	DD	00099	PUSHL	R3	0949
	28	AE	9F	0009B	PUSHAB	BUFFER	
	04	A2	9F	0009E	PUSHAB	4(PTR)	
0000V	CF	03	FB	000A1	CALLS	#3, STOP_BATCH_JOB	
	50	62	3C	000A6	MOVZWL	(PTR), R0	0950
	52	04	9E	000A9	MOVAB	4(R0)(PTR), PTR	
		DF	11	000AE	BRB	5\$	0946
		04	000B0	7\$:	RET		0954

: Routine Size: 177 bytes, Routine Base: \$CODE\$ + 0279

```
0955 1 ROUTINE stop_batch_job (flags, buffer, signal_args): NOVALUE =
0956
0957 ---
0958
0959     This routine is called to terminate a job stream as a result
0960     of an operator request or failure of an individual job step.
0961
0962     Inputs:
0963
0964         flags = Address of flags longword from job controller
0965         djt = Address of entire buffer from job controller
0966
0967     Outputs:
0968
0969         There is no return - the image is exited.
0970
0971 ---
0972 BEGIN
0973
0974 MAP
0975     flags : REF $BBLOCK,           ! Address of options longword
0976     signal_args : REF $BBLOCK;      ! Address of signal arguments or 0
0977
0978 BIND
0979     lgi = .ppd [ppd$l_lgi]: BBLOCK; ! Address the LGI area
0980
0981
0982     Write the logout message.
0983
0984     logout_message();               ! Write logout message
0985
0986
0987
0988
0989     IF .flags[dji$V_log_delete]      ! If delete of output file requested
0990     AND NOT .flags[dji$V_log_spool]  ! and no print,
0991     THEN
0992         output_fab [fab$V_dlt] = true; ! then set to delete on close
0993
0994     $CMEXEC(ROUTIN = close_output);   ! Close log file so we can print it
0995
0996     $CMKRN(ROUTIN = set_uic, ARGST = .lgi [lgi$l_origuic]); ! Reset UIC
0997
0998     IF .flags[dji$V_log_spool]        ! If output file is to be printed
0999     THEN
1000         BEGIN
1001             LOCAL
1002                 wrdptr : REF VECTOR[WORD],
1003                 ptr : REF VECTOR,
1004                 queue_name : VECTOR[2] INITIAL(0,0),
1005                 job_name : VECTOR[2] INITIAL(0,0),
1006                 itmlst : VECTOR[30],
1007                 input_buffer : VECTOR[128];
1008
1009                 ! Pointer to item list
1010                 ! Place for queue name
1011                 ! Place for job name
1012                 ! Item list for SNDJBC
1013                 ! Batch input item
```



```
616 1012 We need to find the queue name, as well as the job name, before starting
617 1013 to fill out the itemlist.
618 1014
619 1015 wrdptr = .buffer; ! Point at the buffer
620 1016 WHILE true DO ! Go thru buffer
621 1017 BEGIN
622 1018 IF .wrdptr[1] EQL 0
623 1019 THEN EXITLOOP;
624 1020 IF .wrdptr[1] EQL djisk_log_queue
625 1021 THEN
626 1022 BEGIN
627 1023 queue_name[0] = .wrdptr[0];
628 1024 queue_name[1] = wrdptr[2];
629 1025 IF .job_name[1] NEQ 0
630 1026 THEN EXITLOOP;
631 1027 END
632 1028 ELSE IF .wrdptr[1] EQL djisk_job_name
633 1029 THEN
634 1030 BEGIN
635 1031 job_name[0] = .wrdptr[0];
636 1032 job_name[1] = wrdptr[2];
637 1033 IF .queue_name[1] NEQ 0
638 1034 THEN EXITLOOP;
639 1035 END;
640 1036 wrdptr = wrdptr[2] + .wrdptr[0];
641 1037 END;
642 1038
643 1039 If no queue name was found, then use SYSSPRINT.
644 1040
645 1041 IF .queue_name[0] EQL 0
646 1042 THEN
647 1043 BEGIN
648 1044 queue_name[0] = %CHARCOUNT('SYSSPRINT');
649 1045 queue_name[1] = UPLIT BYTE('SYSSPRINT');
650 1046 END;
651 1047
652 1048 Now to fill in the itemlist.
653 1049
654 1050 ptr = itmlst; ! Start at beginning of item list
655 1051
656 1052 The queue name is either in the JBC buffer, or else we should use
657 1053 SYSSPRINT.
658 1054
659 1055 ptr[0] = sjc$queue^16 OR .queue_name[0];
660 1056 ptr[1] = .queue_name[1];
661 1057 ptr[2] = 0;
662 1058 ptr = ptr[3];
663 1059
664 1060 Also put in the job name.
665 1061
666 1062 ptr[0] = sjc$job_name^16 OR .job_name[0];
667 1063 ptr[1] = .job_name[1];
668 1064 ptr[2] = 0;
669 1065 ptr = ptr[3];
670 1066
671 1067 Add /NOTIFY if requested.
672 1068
```

```
673 1069 3 IF .flags[dji$w_notify]
674 1070 3 THEN
675 1071 3 BEGIN
676 1072 3 ptr[0] = sjc$_notify^16;
677 1073 3 ptr[1] = ptr[2] = 0;
678 1074 3 ptr = ptr[3];
679 1075 3 END;
680 1076 3
681 1077 3 If the log file exists, add its information.
682 1078 3
683 1079 3 IF CH$RCHAR(ppd[ppd$st_outdvi]) NEQ 0
684 1080 3 THEN
685 1081 3 BEGIN
686 1082 3
687 1083 3 File ID
688 1084 3
689 1085 3 ptr[0] = sjc$_file_identification^16 OR ppd$sc_dvifid;
690 1086 3 ptr[1] = ppd[ppd$st_outdvi];
691 1087 3 ptr[2] = 0;
692 1088 3 ptr = ptr[3];
693 1089 3
694 1090 3 Add /DELETE if requested.
695 1091 3
696 1092 3 IF .flags[dji$w_log_delete]
697 1093 3 THEN
698 1094 3 BEGIN
699 1095 3 ptr[0] = sjc$_delete_file^16;
700 1096 3 ptr[1] = ptr[2] = 0;
701 1097 3 ptr = ptr[3];
702 1098 3 END;
703 1099 3
704 1100 3 The log file always gets a header page.
705 1101 3
706 1102 3 ptr[0] = sjc$_page_header^16;
707 1103 3 ptr[1] = ptr[2] = 0;
708 1104 3 ptr = ptr[3];
709 1105 3 END
710 1106 3
711 1107 3 If no log file exists, attempt to print messages.
712 1108 3
713 1109 3 ELSE IF .signal_args NEQA 0
714 1110 3 THEN
715 1111 3 BEGIN
716 1112 3 LOCAL
717 1113 3 i : REF $BLOCK; ! Pointer to item header
718 1114 3 p : REF $BLOCK; ! Pointer to input buffer
719 1115 3
720 1116 3 p = i = input_buffer;
721 1117 3 p[dji$w_item_code] = dji$w_condition_vector;
722 1118 3 p[dji$w_item_size] = 4;
723 1119 3 p = .p + dji$w_item_header;
724 1120 3 .p = .signal_args[4,0,32,0]; ! Primary condition
725 1121 3 p = .p + 4;
726 1122 3 IF .signal_args[0,0,8,0] GEQU 3
727 1123 3 THEN
728 1124 3 BEGIN
729 1125 3 i[dji$w_item_size] = 8;
```

```
730      .p = .signal_args[12,0,32,0];      ! STS, if present
731      p = .p + 4;
732      END;
733      IF .signal_args[0,0,8,0] GEQU 4
734      THEN
735          BEGIN
736              i[dji$w_item_size] = 12;
737              .p = .signal_args[16,0,32,0];      ! STV, if present
738              p = .p + 4;
739              END;
740
741      IF .output_nam[nam$b_rsl] NEQ 0
742      THEN
743          BEGIN
744              p[dji$w_item_code] = dji$k_file_specification;
745              p[dji$w_item_size] = .output_nam[nam$b_rsl];
746              p = .p + dji$s_item_header;
747              p = CHSMOVE(
748                  .output_nam[nam$b_rsl],
749                  .output_nam[nam$l_rsa],
750                  .p);
751              END
752      ELSE IF .output_nam[nam$b_esl] NEQ 0
753      THEN
754          BEGIN
755              p[dji$w_item_code] = dji$k_file_specification;
756              p[dji$w_item_size] = .output_nam[nam$b_esl];
757              p = .p + dji$s_item_header;
758              p = CHSMOVE(
759                  .output_nam[nam$b_esl],
760                  .output_nam[nam$l_esa],
761                  .p);
762              END
763      ELSE
764          BEGIN
765              p[dji$w_item_code] = dji$k_file_specification;
766              p[dji$w_item_size] = .output_fab[fab$b_fns];
767              p = .p + dji$s_item_header;
768              p = CHSMOVE(
769                  .output_fab[fab$b_fns],
770                  .output_fab[fab$l_fna],
771                  .p);
772              END;
773
774      .p = 0;      ! Zero terminate list
775      p = .p + 4;
776
777      ptr[0] = sjc$batch_input^16 OR (.p - input_buffer);
778      ptr[1] = input_buffer;
779      ptr[2] = 0;
780      ptr = ptr[3];
781      END;
782
783      Done. Put in a zero longword
784      ptr[0] = 0;
785
786
```

```
787 P 1183 3 $SNDJBCW(FUNC = sjc$enter_file,  
788 1184 3 ITMLST = itm1st);  
789 1185 3 END;  
790 1186 3  
791 1187 3 SCMEEXEC(ROUTIN = exit_process); ! Terminate process  
792 1188 3  
793 1189 3 END;
```

```
54 4E 49 52 50 24 53 59 53 00024 P.AAF: .PSECT $SPLITS,NOWRT,NOEXE,2  
      .ASCII \SYSS$PRINT\  
      .EXTRN SYSS$CMEXEC, SYSS$CMKRNL  
      .PSECT $CODE$,NOWRT,2  
07FC 00000 STOP_BATCH JOB:  
      .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10  
5A 00000000G 00 9E 00002 MOVAB SYSS$CMEXEC, R10  
59 00000000G 00 9E 00009 MOVAB PPD+72, R9  
58 00000000G 00 9E 00010 MOVAB OUTPUT_FAB+4, R8  
57 00000000G 00 9E 00017 MOVAB OUTPUT_NAM+3, R7  
5E FD78 CE 9E 0001E MOVAB -648(SP), SP  
52 CC A9 D0 00023 MOVL PPD+20, R2  
0A 00000000G 00 00 FB 00027 CALLS #0, LOGOUT_MESSAGE  
05 04 BC 01 E1 0002E BBC #1, @FLAGS, 1$  
05 04 BC 03 E0 00033 BBS #3, @FLAGS, 1$  
01 AB 80 8F 88 00038 BISB2 #128, OUTPUT_FAB+5  
      7E D4 0003D 1$: CLRL -(SP)  
      00000000G 00 9F 0003F PUSHAB CLOSE OUTPUT  
6A 02 FB 00045 CALLS #2, SYSS$CMEXEC  
      62 DD 00048 PUSHL (R2)  
      00000000G 00 9F 0004A PUSHAB SET UIC  
03 00000000G 00 02 FB 00050 CALLS #2, SYSS$CMKRNL  
04 BC 03 E0 00057 BBS #3, @FLAGS, 2$  
      0154 31 0005C BRW 20$  
      F8 AD 7C 0005F 2$: CLRQ QUEUE_NAME  
      F0 AD 7C 00062 CLRQ JOB_NAME  
50 08 AC D0 00065 MOVL BUFFER, WRDPTR  
51 02 A0 3C 00069 3$: MOVZWL 2(WRDPTR), R1  
      30 13 0006D BEQL 7$  
05 51 B1 0006F CMPW R1, #5  
      0E 12 00072 BNEQ 4$  
      F8 AD 60 3C 00074 MOVZWL (WRDPTR), QUEUE_NAME  
      FC AD 04 A0 9E 00078 MOVAB 4(R0), QUEUE_NAME+4  
      F4 AD D5 0007D TSTL JOB_NAME+4  
      11 11 00080 BRB 5$  
04 51 B1 00082 4$: CMPW R1, #4  
      0E 12 00085 BNEQ 6$  
      F0 AD 60 3C 00087 MOVZWL (WRDPTR), JOB_NAME  
      F4 AD 04 A0 9E 0008B MOVAB 4(R0), JOB_NAME+4  
      FC AD D5 00090 TSTL QUEUE_NAME+4  
      0A 12 00093 5$: BNEQ 7$  
51 60 3C 00095 6$: MOVZWL (WRDPTR), R1  
50 04 A140 9E 0009B MOVAB 4(R1)[WRDPTR], WRDPTR
```


			CA	11	0009D		BRB	3\$	1016
		F8	AD	D5	0009F	7\$:	TSTL	QUEUE_NAME	1041
			0A	12	000A2		BNEQ	8\$	
	F8	AD	09	D0	000A4		MOVL	#9, QUEUE_NAME	1044
	FC	AD	CF	9E	000A8		MOVAB	P.AAF, QUEUE_NAME+4	1045
		56	CD	9E	000AE	8\$:	MOVAB	ITMLST, PTR	1050
86	F8	AD	8F	C9	000B3		BISL3	#8781824, QUEUE_NAME, (PTR)+	1055
		86	AD	D0	000BC		MOVL	QUEUE_NAME+4, (PTR)+	1056
			86	D4	000C0		CLRL	(PTR)+	1057
86	F0	AD	8F	C9	000C2		BISL3	#5177344, JOB_NAME, (PTR)+	1062
		86	AD	D0	000CB		MOVL	JOB_NAME+4, (PTR)+	1063
			86	D4	000CF		CLRL	(PTR)+	1064
09	04	BC	04	E1	000D1		BBC	#4, @FLAGS, 9\$	1069
		86	8F	D0	000D6		MOVL	#7077888, (PTR)+	1072
			86	7C	000DD		CLRQ	(PTR)+	1073
			69	95	000DF	9\$:	TSTB	PPD+72	1079
			27	13	000E1		BEQL	11\$	
		86	8F	D0	000E3		MOVL	#2555932, (PTR)+	1085
		86	69	9E	000EA		MOVAB	PPD+72, (PTR)+	1086
			86	D4	000ED		CLRL	(PTR)+	1087
09	04	BC	01	E1	000EF		BBC	#1, @FLAGS, 10\$	1092
		86	8F	D0	000F4		MOVL	#1572864, (PTR)+	1095
			86	7C	000FB		CLRQ	(PTR)+	1096
		66	8F	D0	000FD	10\$:	MOVL	#7405568, (PTR)	1102
			A6	7C	00104		CLRQ	4(PTR)	1103
			0090	31	00107		BRW	18\$	1104
		50	AC	D0	0010A	11\$:	MOVL	SIGNAL_ARGS, R0	1109
			03	12	0010E		BNEQ	12\$	
			008A	31	00110		BRW	19\$	
		51	6E	9E	00113	12\$:	MOVAB	INPUT_BUFFER, I	1116
		53	51	D0	00116		MOVL	I, P	
		83	8F	D0	00119		MOVL	#-2147352572, (P)+	1118
		83	A0	D0	00120		MOVL	4(R0), (P)+	1120
		03	60	91	00124		CMPB	(R0), #3	1122
			07	1F	00127		BLSSU	13\$	
		61	08	B0	00129		MOVW	#8, (I)	1125
		83	A0	D0	0012C		MOVL	12(R0), (P)+	1126
		04	60	91	00130	13\$:	CMPB	(R0), #4	1129
			07	1F	00133		BLSSU	14\$	
		61	0C	B0	00135		MOVW	#12, (I)	1132
		83	A0	D0	00138		MOVL	16(R0), (P)+	1133
		50	67	9A	0013C	14\$:	MOVZBL	OUTPUT_NAM+3, R0	1137
			12	13	0013F		BEQL	15\$	
02	A3	8003	8F	B0	00141		MOVW	#-32765, 2(P)	1140
	83		50	B0	00147		MOVW	R0, (P)+	1141
	53		02	C0	0014A		ADDL2	#2, P	1142
	51	01	A7	D0	0014D		MOVL	OUTPUT_NAM+4, R1	1145
			2C	11	00151		BRB	17\$	1146
	50	08	A7	9A	00153	15\$:	MOVZBL	OUTPUT_NAM+11, R0	1148
			12	13	00157		BEQL	16\$	
02	A3	8003	8F	B0	00159		MOVW	#-32765, 2(P)	1151
	83		50	B0	0015F		MOVW	R0, (P)+	1152
	53		02	C0	00162		ADDL2	#2, P	1153
	51	09	A7	D0	00165		MOVL	OUTPUT_NAM+12, R1	1156
			14	11	00169		BRB	17\$	1157
02	A3	8003	8F	B0	0016B	16\$:	MOVW	#-32765, 2(P)	1161
	50	30	A8	9A	00171		MOVZBL	OUTPUT_FAB+52, R0	1162

	83		50	B0	00175	MOVW	R0, (P)+		
	53		02	C0	00178	ADDL2	#2, P	1163	
	51	28	A8	D0	0017B	MOVL	OUTPUT_FAB+44, R1	1166	
63	61		50	28	0017F	17\$: MOVCL	R0, (RT), (P)	1167	
			83	D4	00183	CLRL	(P)+	1170	
	50		6E	9E	00185	MOVAB	INPUT_BUFFER, R0	1173	
	53		50	C2	00188	SUBL2	R0, R3		
66	53	000A0000	8F	C9	0018B	BISL3	#655360, R3, (PTR)		
	04	A6	6E	9E	00193	MOVAB	INPUT_BUFFER, 4(PTR)	1174	
		08	A6	D4	00197	CLRL	8(PTR)	1175	
	56		0C	C0	0019A	18\$: ADDL2	#12, PTR	1176	
			66	D4	0019D	19\$: CLRL	(PTR)	1181	
			7E	7C	0019F	CLRL	-(SP)	1184	
			7E	D4	001A1	CLRL	-(SP)		
		FF78	CD	9F	001A3	PUSHAB	ITMLST		
	7E		13	7D	001A7	MOVQ	#19, -(SP)		
			7E	D4	001AA	CLRL	-(SP)		
00000000G	00		07	FB	001AC	CALLS	#7, SYSSNDJBCW		
			7E	D4	001B3	20\$: CLRL	-(SP)	1187	
		00000000G	00	9F	001B5	PUSHAB	EXIT_PROCESS		
	6A		02	FB	001BB	CALLS	#2, SYSSCMEXEC		
			04	001BE	RET			1189	

; Routine Size: 447 bytes, Routine Base: \$CODE\$ + 032A


```
852 1247 BEGIN                                     ! Use the access control string
853 1248 ptr = .sys$output [1];                     ! Get address of SYS$OUTPUT string
854 1249
855 1250 username [0] = CH$RCHAR_A(ptr);               ! Get length of username
856 1251 username [1] = .ptr;                         ! and address of username
857 1252
858 1253 ptr = .ptr + .username [0];                   ! Skip to password
859 1254 password [0] = CH$RCHAR_A(ptr);               ! Get length of password
860 1255 password [1] = .ptr;                         ! and address of password
861 1256
862 1257 ptr = .ptr + .password [0];                   ! Skip to account
863 1258 account [0] = CH$RCHAR_A(ptr);                 ! Get length of account
864 1259 account [1] = .ptr;                         ! and address of account
865 1260
866 1261 IF NOT .pcb_sts [$BITPOSITION(pcb$u_login)]
867 1262 THEN validate_uafrec(username,                ! Lookup in UAF file
868 1263                      password,                ! and validate the password
869 1264                      UPLIT (0,0));             ! with a null secondary password
870 1265
871 1266 END;
872 1267
873 1268 :::: Create SYS$NET logical name with contents of NCB
874 1269
875 1270
876 1271 create_logical(%ASCII 'SYS$NET',                ! Define SYS$NET
877 1272               sys$error,
878 1273               psl$exec);
879 1274
880 1275
881 1276 :::: If the input file has the file type .EXE, then rather than activating
882 1277 the CLI and creating a log file, activate the program from a small
883 1278 code segment in P1 space. This is done to optimize network job
884 1279 activation time.
885 1280
886 1281
887 1282 IF NOT CH$FAIL(CH$FIND_SUB(.sys$input [0], .sys$input [1],
888 1283                          4, UPLIT BYTE(' .EXE')))
889 1284 THEN
890 1285 BEGIN
891 1286 $CMEXEC(ROUTIN = map_imgact);                 ! Map the imgact code segment into P1
892 1287 input_fab [fab$l_fna] = UPLIT BYTE('_NL:');   ! Set input to NL:
893 1288 input_fab [fab$b_fns] = 4;
894 1289 output_fab [fab$l_fna] = .input_fab [fab$l_fna]; ! Set output to NL:
895 1290 output_fab [fab$b_fns] = .input_fab [fab$b_fns];
896 1291 RETURN;                                         ! and Return
897 1292 END;
898 1293
899 1294 :::: Set default filespec for input file
900 1295
901 1296
902 1297
903 1298 input_fab [fab$l_dna] = UPLIT BYTE('CONNECT.COM');
904 1299 input_fab [fab$b_dns] = 11;
905 1300
906 1301
907 1302 :::: Construct filespec of output log file for network job
908 1303
```



```

909 1304 2 ptr = (sys$output [1] = sys$input [1]);
910 1305 2 IF (len = (sys$output [0] = sys$input [0])) NEQ 0
911 1306 2 THEN
912 1307 2 BEGIN
913 1308 2 DO
914 1309 2 BEGIN
915 1310 2 LOCAL
916 1311 2 chr: BYTE;
917 1312 2 chr = CH$RCHAR A(ptr);
918 1313 2 IF chr EQL ' '
919 1314 2 OR chr EQL ']'
920 1315 2 OR chr EQL '>'
921 1316 2 THEN
922 1317 2 BEGIN
923 1318 2 sys$output [1] = ptr;
924 1319 2 sys$output [0] = len - 1;
925 1320 2 END;
926 1321 2 len = len - 1;
927 1322 2 END
928 1323 2 WHILE len GTR 0;
929 1324 2 IF NOT CH$FAIL(ptr = CH$FIND_CH(sys$output [0], sys$output [1], '.'))
930 1325 2 THEN
931 1326 2 sys$output [0] = CH$DIFF(ptr, sys$output [1]);
932 1327 2 END;
933 1328 2 output_fab [fab$b_fns] = sys$output [0]; ! Set as primary output filespec
934 1329 2 output_fab [fab$l_fna] = sys$output [1];
935 1330 2
936 1331 2
937 1332 2
938 1333 1 END;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
00 54 45 4E 24 53 59 53 0002D .BLKB 3
00000000 00000000 00030 P.AAG: .LONG 0, 0
010E0007 00040 P.AAI: .ASCII \SYS$NET\<0>
00000000 00044 P.AAH: .LONG 17694727
45 58 45 2E 00048 P.AAJ: .ADDRESS P.AAI
3A 4C 4E 5F 0004C P.AAK: .ASCII \.EXE\
4D 4F 43 2E 54 43 45 4E 4E 4F 43 00050 P.AAL: .ASCII \NL:\CONNECT.COM\

```

```

.PSECT $CODE$,NOWRT,2
07FC 00000
5A 0000' CF 9E 00002 .ENTRY INIT_NETWORK, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 1190
59 00000000G 00 9E 00007 R10
58 00000000G 00 9E 0000E MOVAB P.AAG, R10
57 00000000G 00 9E 00015 MOVAB SYSSERROR, R9
56 00000000G 00 9E 0001C MOVAB OUTPUT_FAB+44, R8
55 00000000G 00 9E 00023 MOVAB SY$INPUT+4, R7
5E 18 C2 0002A MOVAB INPUT_FAB+44, R6
SUBL2 SY$OUTPUT+4, R5
#24, SP

```

00000000G	00	01	D0	0002D	MOVL	#1, JOB TYPE	1218	
60	50	04	A9	D0	00034	MOVL	SY\$ERROR+4, R0	1224
	69		2F	3A	00038	LOCC	#47, SY\$ERROR, (R0)	
			02	12	0003C	BNEQ	1\$	
	54		51	D4	0003E	CLRL	R1	
			51	D0	00040	MOVL	R1, PTR	
	7E		0B	13	00043	BEQL	2\$	
00000000G	00	01	A4	3C	00045	MOVZWL	1(PTR), -(SP)	1226
	50		01	FB	00049	CALLS	#1, SET NODE_NAME	
	54		65	D0	00050	MOVL	SY\$OUTPUT+4, R0	1236
FC	A5		60	D0	00053	MOVL	(R0), PTR	
	65		02	C2	00056	SUBL2	#2, SY\$OUTPUT	1238
	08		02	C0	0005A	ADDL2	#2, SY\$OUTPUT+4	1239
0000V	CF		54	E9	0005D	BLBC	PTR, 3\$	1243
	39		00	FB	00060	CALLS	#0, GET_PROXY	
	54		50	EB	00065	BLBS	R0, 4\$	
10	AE		65	D0	00068	MOVL	SY\$OUTPUT+4, PTR	1248
14	AE		84	9A	0006B	MOVZBL	(PTR)+, USERNAME	1250
	54	10	54	D0	0006F	MOVL	PTR, USERNAME+4	1251
08	AE		AE	C0	00073	ADDL2	USERNAME, PTR	1253
0C	AE		84	9A	00077	MOVZBL	(PTR)+, PASSWORD	1254
	54	08	54	D0	0007B	MOVL	PTR, PASSWORD+4	1255
	6E		AE	C0	0007F	ADDL2	PASSWORD, PTR	1257
04	AE		84	9A	00083	MOVZBL	(PTR)+, ACCOUNT	1258
OF 00000000G	00		54	D0	00086	MOVL	PTR, ACCOUNT+4	1259
			04	E0	0008A	BBS	#4, PCB_STS+2, 4\$	1261
			5A	DD	00092	PUSHL	R10	1264
		0C	AE	9F	00094	PUSHAB	PASSWORD	1262
		18	AE	9F	00097	PUSHAB	USERNAME	
00000000G	00		03	FB	0009A	CALLS	#3, VALIDATE_UAFREC	
			01	DD	000A1	PUSHL	#1	1271
			59	DD	000A3	PUSHL	R9	
		10	AA	9F	000A5	PUSHAB	P.AAH	
00000000G	00		03	FB	000A8	CALLS	#3, CREATE LOGICAL	
	50		67	D0	000AF	MOVL	SY\$INPUT+4, R0	1282
60	FC	A7	04	39	000B2	MATCHC	#4, P.AAJ, SY\$INPUT, (R0)	1283
			03	13	000B9	BEQL	5\$	
	53		04	D0	000BB	MOVL	#4, R3	
	53		04	C2	000BE	SUBL2	#4, R3	
			20	13	000C1	BEQL	6\$	
			7E	D4	000C3	CLRL	-(SP)	1286
00000000G	00	00000000G	00	9F	000C5	PUSHAB	MAP_IMGACT	
	66		02	FB	000CB	CALLS	#2, SY\$CMEXEC	
	08	1C	AA	9E	000D2	MOVAB	P.AAK, INPUT_FAB+44	1287
	68		04	90	000D6	MOVB	#4, INPUT_FAB+52	1288
	08	08	66	D0	000DA	MOVL	INPUT_FAB+44, OUTPUT_FAB+44	1289
	A8		A6	90	000DD	MOVB	INPUT_FAB+52, OUTPUT_FAB+52	1290
				04	000E2	RET		1285
04	A6	20	AA	9E	000E3	MOVAB	P.AAL, INPUT_FAB+48	1298
09	A6		0B	90	000E8	MOVB	#11, INPUT_FAB+53	1299
	50		67	D0	000EC	MOVL	SY\$INPUT+4, R0	1305
	65		50	D0	000EF	MOVL	R0, SY\$OUTPUT+4	
	54		50	D0	000F2	MOVL	R0, PTR	
	50	FC	A7	D0	000F5	MOVL	SY\$INPUT, R0	1306
FC	A5		50	D0	000F9	MOVL	R0, SY\$OUTPUT	
			34	13	000FD	BEQL	11\$	
	51		84	90	000FF	MOVB	(PTR)+, CHR	1313

DETACHED
V04-000

H 13
16-Sep-1984 01:59:01
14-Sep-1984 12:41:05

VAX-11 Bliss-32 V4.0-742
[LOGIN.SRC]DETACHED.B32;1

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(6)

		3A		51	91	00102		CMPB	CHR, #58	:	1314
				08	13	00105		BEQL	8\$:	
	5D	8F		51	91	00107		CMPB	CHR, #93	:	1315
				05	13	00108		BEQL	8\$:	
		3E		51	91	00100		CMPB	CHR, #62	:	1316
				08	12	00110		BNEQ	9\$:	
		65		54	D0	00112	8\$:	MOVL	PTR, SYS\$OUTPUT+4	:	1319
	FC	A5	FF	A0	9E	00115		MOVAB	-1(R0), SYS\$OUTPUT	:	1320
		E2		50	F5	0011A	9\$:	SOBGTR	LEN, 7\$:	1322
		32		65	D0	0011D		MOVL	SYS\$OUTPUT+4, R2	:	1325
62	FC	A5		2E	3A	00120		LOCC	#46, SYS\$OUTPUT, (R2)	:	
				02	12	00125		BNEQ	10\$:	
				51	D4	00127		CLRL	R1	:	
		54		51	D0	00129	10\$:	MOVL	R1, PTR	:	
				05	13	0012C		BEQL	11\$:	
FC	A5			52	C3	0012E		SUBL3	R2, PTR, SYS\$OUTPUT	:	1327
	08	54	FC	A5	90	00133	11\$:	MOVB	SYS\$OUTPUT, OUTPUT_FAB+52	:	1330
		A8		65	D0	00138		MOVL	SYS\$OUTPUT+4, OUTPUT_FAB+44	:	1331
		68		04	0013B			RET		:	1333

; Routine Size: 316 bytes, Routine Base: \$CODE\$ + 04E9

```

940 1334 1 ROUTINE get_proxy =
941 1335 1 ---
942 1336 1
943 1337 1     Get the local username that is mapped to the remote username.
944 1338 1     The remote username is contained in the NCB string described
945 1339 1     by NCB_DESC, the NCB descriptor.
946 1340 1
947 1341 1 Inputs:
948 1342 1
949 1343 1     sys$error = address of NCB descriptor
950 1344 1
951 1345 1 Outputs:
952 1346 1
953 1347 1     uaf_record = Address of UAF record, if any
954 1348 1
955 1349 1 Status returns:
956 1350 1
957 1351 1     TRUE => Proxy username found
958 1352 1     FALSE => No proxy username found
959 1353 1
960 1354 1 ---
961 1355 1
962 1356 1 BEGIN
963 1357 1
964 1358 1 LOCAL
965 1359 1     status,
966 1360 1     netfab : BBLOCK[fab$c_bln],
967 1361 1     netrab : BBLOCK[rab$c_bln],
968 1362 1     net_record : BBLOCK[naf$c_length],
969 1363 1     user_desc : VECTOR[2],
970 1364 1     ptr,
971 1365 1     node_len,
972 1366 1     node_ptr,
973 1367 1     user_len,
974 1368 1     user_ptr;
975 1369 1
976 1370 1
977 1371 1 Initialize the FAB and RAB
978 1372 1
979 1373 1 $FAB_INIT ( FAB = netfab,
980 1374 1             FAC = get,
981 1375 1             FNM = 'NETUAF',
982 1376 1             DNM = 'SYS$SYSTEM:.DAT',
983 1377 1             SHR = (get,put,upd,del));
984 1378 1
985 1379 1 Disable group and process logical name translation. This must be
986 1380 1 done manually, since $FAB_INIT doesn't know about the disable mask.
987 1381 1
988 1382 1 netfab[fab$v_lnm_mode] = psi$c_exec;
989 1383 1
990 1384 1 $RAB_INIT ( RAB = netrab,
991 1385 1             ROP = rrl,
992 1386 1             RAC = key,
993 1387 1             KRF = 0,
994 1388 1             KBF = net_record[naf$t_renname],
995 1389 1             KSZ = naf$s_renname,
996 1390 1             UBF = net_record,

```

```

! Fab for NETUAF.DAT
! Rab for NETUAF.DAT
! Place to put a record
! Username descriptor
! Temp pointer
! Length of node
! Pointer to beginning of node
! Length of username
! Pointer to beginning of username

```

```

! Want to get records
! Name is NETUAF
! Look in SYS$SYSTEM
! Do shared access

```

```

! Don't lock records
! Access is keyed
! Use primary key
! Lookup key overlays net record
! and it's this long
! Fetch record and put it here

```



```

997      P 1391      2      USZ = naf$c length,      ! Size of record
998      1392      FAB = netfab);
999      1393
1000      1394      --- Open NETUAF
1001      1395
1002      1396      set_sysprv ();
1003      1397      IF NOT (status = $OPEN (FAB = netfab))
1004      1398      THEN
1005      1399      BEGIN
1006      1400      clear_sysprv ();
1007      1401      IF .status EQL rms$_fnf
1008      1402      THEN RETURN false;
1009      1403      SIGNAL_STOP (lgi$_netuafacc, 0, .status, .netfab[fab$_l_stv]);
1010      1404      END;
1011      1405
1012      1406      IF NOT (status = $CONNECT (RAB = netrab))
1013      1407      THEN
1014      1408      BEGIN
1015      1409      IF .status EQL rms$_crmp
1016      1410      THEN
1017      1411      BEGIN
1018      1412      netrab[fab$_w_gbc] = 0;
1019      1413      status = $CONNECT (RAB = netrab);
1020      1414      END;
1021      1415      IF NOT .status
1022      1416      THEN
1023      1417      BEGIN
1024      1418      clear_sysprv ();
1025      1419      $CLOSE (FAB = netfab);
1026      1420      SIGNAL_STOP (lgi$_netuafacc, 0, .status, .netrab[rab$_l_stv]);
1027      1421      END;
1028      1422      END;
1029      1423
1030      1424      clear_sysprv ();
1031      1425
1032      1426      --- Get the remote node and remote username from the Network Control Block.
1033      1427      The NCB is an ASCII string that looks like this:
1034      1428      NODE::'OBJECT=USERNAME/<more stuff>'
1035      1429
1036      1430      Where NODE and USERNAME are the two fields to extract and use as a key,
1037      1431      to locate the record in NETUAF.DAT which contains the local username to
1038      1432      map to.
1039      1433
1040      1434      --- First, get the node.
1041      1435
1042      1436      ptr = CH$FIND_SUB ( .sys$error[0],      ! Search the NCB string
1043      1437      sys$error[1],
1044      1438      2, UPLIT ('::'));      ! Looking for ::
1045      1439
1046      1440
1047      1441
1048      1442
1049      1443
1050      1444
1051      1445
1052      1446
1053      1447      --- If the node wasn't there, then return FALSE and process with no proxy
```

```
1054 1448 2 !
1055 1449 2
1056 1450 2 IF .ptr EQL 0 OR
1057 1451 2 .ptr EQL .sys$error[1]
1058 1452 2 THEN RETURN false;
1059 1453 2
1060 1454 2 node_len = .ptr - .sys$error[1]; ! Store node length
1061 1455 2 node_ptr = .sys$error[1]; ! And starting address
1062 1456 2
1063 1457 2
1064 1458 2 ! Get the username. This is done by looking for the '=', then the
1065 1459 2 '!', and interpreting whatever is between the two characters as the
1066 1460 2 username.
1067 1461 2
1068 1462 2
1069 1463 2 ptr = CH$FIND_CH ( .sys$error[0], ! Search the NCB string
1070 1464 2 .sys$error[1], ! Looking for equal sign
1071 1465 2 '=');
1072 1466 2
1073 1467 2 IF .ptr EQL 0 ! If no such character found
1074 1468 2 THEN RETURN false; ! return a value of FALSE
1075 1469 2
1076 1470 2 user_ptr = .ptr + 1; ! Compute beginning of username
1077 1471 2
1078 1472 2 ptr = CH$FIND_CH ( .sys$error[0], ! Search the NCB string
1079 1473 2 .sys$error[1], ! Looking for slash
1080 1474 2 '/');
1081 1475 2
1082 1476 2
1083 1477 2 ! If no slash, or a null username, return FALSE
1084 1478 2
1085 1479 2
1086 1480 2 IF .ptr EQL 0 OR
1087 1481 2 .ptr EQL .user_ptr
1088 1482 2 THEN RETURN false;
1089 1483 2
1090 1484 2
1091 1485 2 ! Otherwise, compute the username length
1092 1486 2
1093 1487 2
1094 1488 2 user_len = .ptr - .user_ptr;
1095 1489 2
1096 1490 2
1097 1491 2 ! Copy the node and username to NET_KEY, the key buffer that RMS will
1098 1492 2 use to look for the specified record.
1099 1493 2
1100 1494 2 CH$COPY ( ,node_len, .node_ptr, ! Copy the nodename
1101 1495 2 naf$s_node, net_record[naf$t_node]); ! Padded with blanks
1102 1496 2 ! To the key buffer
1103 1497 2
1104 1498 2 CH$COPY ( ,user_len, .user_ptr, ! Copy the username
1105 1499 2 naf$s_remuser, net_record[naf$t_remuser]); ! Padded with blanks
1106 1500 2
1107 1501 2
1108 1502 2
1109 1503 2 ! Now perform a $GET, so see if there is a record in NETUAF that
1110 1504 2 ! exactly matches the node and username specified. If no exact match
```

```
1111 1505 2 is found, wildcarding is applied in the following order:
1112 1506
1113 1507     Wildcard node, specific user
1114 1508     Specific node, wildcard user
1115 1509     Wildcard node, wildcard user
1116 1510
1117 1511 If a match is found, then it is used and no further checking is done.
1118 1512
1119 1513 IF NOT ($GET (RAB = netrāb))
1120 1514 THEN
1121 1515     BEGIN
1122 1516     CH$COPY ( 1, UPLIT ('*'),           ! Put in wildcard node
1123 1517     naf$s_node, net_record[naf$t_node]);
1124 1518
1125 1519     IF NOT ($GET (RAB = netrāb))
1126 1520     THEN
1127 1521     BEGIN
1128 1522     CH$COPY ( , node_len, .node_ptr,       ! Specific node,
1129 1523     naf$s_node, net_record[naf$t_node]);
1130 1524
1131 1525     CH$COPY ( 1, UPLIT ('*'),           ! Wildcard user
1132 1526     naf$s_remuser, net_record[naf$t_remuser]);
1133 1527
1134 1528     IF NOT ($GET (RAB = netrāb))
1135 1529     THEN
1136 1530     BEGIN
1137 1531     CH$COPY ( 1, UPLIT ('*'),           ! Wildcard node and user
1138 1532     naf$s_node, net_record[naf$t_node]);
1139 1533
1140 1534     IF NOT ($GET (RAB = netrāb))
1141 1535     THEN
1142 1536     BEGIN
1143 1537     $CLOSE(FAB = netfab);
1144 1538     RETURN false;           ! If no matches, return false
1145 1539     END;
1146 1540     END;
1147 1541     END;
1148 1542     END;
1149 1543
1150 1544 Close NETUAF
1151 1545
1152 1546
1153 1547 $CLOSE (FAB = netfab);
1154 1548
1155 1549 If we get here, then a match was found. Check to see if the local username
1156 1550 is actually a '*', in which case copy the remote username to the local
1157 1551 username.
1158 1552
1159 1553
1160 1554 IF .VECTOR [net_record[naf$t_localuser], 0; ,BYTE] EQL '*'
1161 1555 THEN CH$COPY (, user_len, .user_ptr,
1162 1556     naf$s_localuser, net_record[naf$t_localuser]);
1163 1557
1164 1558
1165 1559
1166 1560 Now fill in the user descriptor with the local username, and call
1167 1561 GET_UAFREC, to get the UAF record without checking for password.
```

```
1168 1562 2 !
1169 1563 2
1170 1564 2 user_desc[0] = naf$s_localuser;
1171 1565 2 user_desc[1] = net_record[naf$t_localuser];
1172 1566 2
1173 1567 2 get_uafrec (user_desc);
1174 1568 2
1175 1569 2
1176 1570 2 Done. If a UAF record was found, return TRUE. Otherwise return FALSE.
1177 1571 2
1178 1572 2
1179 1573 2 RETURN (.uaf_record NEQ 0);
1180 1574 1 END;
```

```
.PSECT $SPLITS,NOWRT,NOEXE,2

54 41 44 2E 3A 4D 45 54 53 46 41 55 54 45 4E 0005B P.AAM: .ASCII \NETUAF\
24 53 59 53 00061 P.AAN: .ASCII \SYSS$SYSTEM:.DAT\
00 00 3A 3A 00070 P.AAO: .ASCII \::\<0><0>
00 00 00 2A 00074 P.AAP: .ASCII \*\<0><0><0>
00 00 00 2A 00078 P.AAQ: .ASCII \*\<0><0><0>
00 00 00 2A 0007C P.AAR: .ASCII \*\<0><0><0>

.EXTRN SYSS$OPEN, SYSS$CONNECT
.EXTRN SYSS$CLOSE, SYSS$GET

.PSECT $CODE$,NOWRT,2

OFFC 00000 GET_PROXY:
5B 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
5A 00000000G 00 9E 00009 MOVAB CLEAR SYSPRV, R11
5E FF00 CE 9E 00010 MOVAB SYSS$GET, R10
6E B0 AD 00 2C 00015 MOVAB -256(SP), SP
B0 AD 5003 8F B0 0001C MOVCS #0, (SP), #0, #80, $RMS_PTR
C6 AD 0F02 8F B0 0001E MOVW #20483, $RMS_PTR
CF AD 0F02 8F B0 00024 MOVW #3842, $RMS_PTR+22
DC AD 0000' 02 90 0002A MOVB #2, $RMS_PTR+31
E0 AD 0000' CF 9E 0002E MOVAB P.AAM, $RMS_PTR+44
E4 AD 0000' CF 9E 00034 MOVAB P.AAN, $RMS_PTR+48
FA AD 0F06 8F B0 0003A MOVW #3846, $RMS_PTR+52
0044 AD 00 01 F0 00040 INSV #1, #0, #2, NETFAB+74
8F 8F 00 2C 00046 MOVCS #0, (SP), #0, #68, $RMS_PTR
6C AE 4401 8F B0 0004D MOVW #17409, $RMS_PTR
70 AE 08 D0 00055 MOVL #8, $RMS_PTR+4
8A AD 01 90 00059 MOVB #1, $RMS_PTR+30
8C AD 64 8F 9B 0005D MOVZBW #100, $RMS_PTR+32
90 AD 08 AE 9E 00062 MOVAB NET_RECORD, $RMS_PTR+36
9C AD 08 AE 9E 00067 MOVAB NET_RECORD, $RMS_PTR+48
A0 AD 40 8F 90 0006C MOVB #64, $RMS_PTR+52
A8 AD B0 AD 9E 00071 MOVAB NETFAB, $RMS_PTR+60
00000000G 00 00 FB 00076 CALLS #0, SET_SYSPRV
00000000G 00 B0 AD 9F 0007D PUSHAB NETFAB
01 FB 00080 CALLS #1, SYSS$OPEN
```


	52		50	D0	00087	MOVL	R0, STATUS		
	23		52	E8	0008A	BLBS	STATUS, 2\$		
	6B		00	FB	0008D	CALLS	#0, CLEAR_SYSPRV	1401	
00018292	8F		52	D1	00090	CMPL	STATUS, #98962	1402	
			03	12	00097	BNEQ	1\$		
		014B	31	00099	BRW	12\$			
		BC	AD	DD	0009C	1\$:	PUSHL	NETFAB+12	1404
			52	DD	0009F		PUSHL	STATUS	
			7E	D4	000A1		CLRL	-(SP)	
00000000G	00	00000000G	8F	DD	000A3		PUSHL	#LGIS, NETUAFACC	
			04	FB	000A9		CALLS	#4, LIB\$STOP	
00000000G	00	6C	AE	9F	000B0	2\$:	PUSHAB	NETRAB	1407
			01	FB	000B3		CALLS	#1, SYSS\$CONNECT	
			50	D0	000BA		MOVL	R0, STATUS	
			52	E8	000BD		BLBS	STATUS, 4\$	
0001C14C	8F		52	D1	000C0		CMPL	STATUS, #115020	1410
			10	12	000C7		BNEQ	3\$	
		F8	AD	B4	000C9		CLRW	NETFAB+72	1413
		6C	AE	9F	000CC		PUSHAB	NETRAB	1414
00000000G	00		01	FB	000CF		CALLS	#1, SYSS\$CONNECT	
			50	D0	000D6		MOVL	R0, STATUS	
			52	E8	000D9	3\$:	BLBS	STATUS, 4\$	1416
			00	FB	000DC		CALLS	#0, CLEAR_SYSPRV	1419
		B0	AD	9F	000DF		PUSHAB	NETFAB	1420
00000000G	00		01	FB	000E2		CALLS	#1, SYSS\$CLOSE	
		78	AE	DD	000E9		PUSHL	NETRAB+12	1421
			52	DD	000EC		PUSHL	STATUS	
			7E	D4	000EE		CLRL	-(SP)	
		00000000G	8F	DD	000F0		PUSHL	#LGIS, NETUAFACC	
00000000G	00		04	FB	000F6		CALLS	#4, LIB\$STOP	
			00	FB	000FD	4\$:	CALLS	#0, CLEAR_SYSPRV	1425
		00000000G	00	D0	00100		MOVL	SYSS\$ERROR, R5	1442
		54	0000G000G	00	D0	00107	MOVL	SYSS\$ERROR+4, R4	1443
64	55	0000'	CF	02	39	0010E	MATCHC	#2, P.AAO, R5, (R4)	1444
			03	13	00115	BEQL	5\$		
			02	D0	00117	MOVL	#2, R3		
			02	C2	0011A	5\$:	SUBL2	#2, R3	
			2D	13	0011D		BEQL	8\$	1450
			53	D1	0011F		CMPL	PTR, R4	1451
			28	13	00122		BEQL	8\$	
57	53		54	C3	00124		SUBL3	R4, PTR, NODE_LEN	1454
			54	D0	00128		MOVL	R4, NODE_PTR	1455
64	55		3D	3A	0012B		LOCC	#61, R5, (R4)	1463
			02	12	0012F		BNEQ	6\$	
			51	D4	00131		CLRL	R1	
			51	D0	00133	6\$:	MOVL	R1, PTR	
			78	13	00136		BEQL	9\$	1467
		01	A3	9E	00138		MOVAB	1(R3), USER_PTR	1470
64	55		2F	3A	0013C		LOCC	#47, R5, (R4)	1472
			02	12	00140		BNEQ	7\$	
			51	D4	00142		CLRL	R1	
			51	D0	00144	7\$:	MOVL	R1, PTR	
			67	13	00147		BEQL	9\$	1480
			53	D1	00149		CMPL	PTR, USER_PTR	1481
			62	13	0014C	8\$:	BEQL	9\$	
			58	C3	0014E		SUBL3	USER_PTR, PTR, USER_LEN	1488
20	59	53	57	2C	00152		MOVC5	NODE_LEN, (NODE_PTR), #32, #32, NET_RECORD	1496
	20	66							

[illegible]

; Routine Size: 490 bytes, Routine Base: \$CODE\$ + 0625

: 1182
: 1183
1575 1 END
1576 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	299	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	128	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	2063	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	163	0	1000	00:01.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DETACHED/OBJ=OBJ\$:DETACHED MSRC\$:DETACHED/UPDATE=(ENH\$:DETACHED)

: Size: 2063 code + 427 data bytes
: Run Time: 00:31.3
: Elapsed Time: 02:05.2
: Lines/CPU Min: 3020
: Lexemes/CPU-Min: 38117
: Memory Used: 286 pages
: Compilation Complete

0221 AH-BT13A-SE
VAX/VMS V4.0

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